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finite difference "in-mold coating"

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M CABFU3RA-RIOS, S ZUYEV - POLYMER COMPOSITES, 2002 - doi.wiley.com

... **In-mold coating** (IMC) is a single-component product designed to enhance the ... A complete validation must include the analysis of the **differences** between the ...

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... heating channels of a representative mold, and a **finite difference** model to ... With **in-mold coating**, there are usu- ally additional mold opening, injection and ...

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C Castro - Journal of Integrated Design and Process Science, 2003 - IOS Press

... 5, can be decomposed into the **difference** of two ... A **finite** element mesh of the part was created in ... location and cycle time for the **in-mold coating** (IMC) process ...

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[\[book\] Fiber-Reinforced Composites: Materials, Manufacturing, and Design - all 3 versions »](#)

P Mallick - 1993 - books.google.com

... **Applied Finite Element Modeling: Practical Problem Solving for Engineers**, Jeffrey M. Steele ... that of a metal structure, principally due to the **difference** in its ...

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[Mathematical Modeling of the In-mold Coating Process for Injection Molded Thermoplastic Parts - all 4 versions »](#)

X Chen - 2003 - ohioink.edu

... For a successful **in mold coating** operation, there are two key issues related to the ... **Finite Difference Method** (FDM) is first used to solve the 1 dimensional (1D) ...

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[A procedure for advection and diffusion in thin cavities - all 3 versions »](#)

F Ladeinde - Computational Mechanics, 1995 - Springer

... polymer in injection molding, compression molding, and **in-mold coating**; the flow of ... example, have somehow managed to solve the problem using **finite difference**. ...

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HG Kia - Polymer-Plastics Technology and Engineering, 1989 - informaworld.com

... resin, formulated in an almost in- **finite** number of ... Therefore, the effect of **in-mold coating** is in the ... at elevated temperatures due to the **differences** in the ...

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CC Lee - Polymer Engineering and Science, 1989 - doi.wiley.com

... With **in-mold coating**, there are additional mold opening, injection and mold closing ... Most reaction simulations (3-7) used the **finite difference** method and were ...

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MR Kamal, ME Ryan - Advances in Polymer Technology, 1984 - doi.wiley.com  
... **In-mold coating** techniques can be suc- cessfully used for higher fiber loadings  
or alleviating problems associated with parts having inadequate sur- face ...  
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[book] [Manufacturing of Polymer Composites](#)

BT Astrom - 1997 - books.google.com

... some of the more important **differences** between polymer ... EV Electric vehicle FE Finite  
element FRY Fiber ... IM Intermediate modulus IMC **In-mold coating** IR Infrared ...

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Y Yamamoto, K Ohta, K Yonemochi, S Fujii, T ... - US Patent 5,736,090, 1998 - Google Patents

... the are frequently used for the **in-mold coating** compositions, coating composition, a change in the **fluidity** and a deterio- maybe ...[Cited by 10](#) - [Related Articles](#) - [Web Search](#)**[Method of in-mold coating - all 2 versions »](#)**

K Yonemochi, Y Yamamoto - US Patent 6,180,043, 2001 - Google Patents

... of the injection molding apparatus and the mold to put the **in-mold coating** according to the ... injection as explained, the coating material has good **fluidity** ...[Cited by 2](#) - [Related Articles](#) - [Web Search](#)**[Method of deciding the quality of resin workpiece in a compression-molding process - all 3 versions »](#)**

T Nagaoka, M Kashiwa - US Patent 5,395,565, 1995 - Google Patents

... ener to the SMC. Since the quality and **fluidity** of the position ... The shape in the cavity 13. In step 7, an **in-mold coating** chain ...[Cited by 7](#) - [Related Articles](#) - [Web Search](#)**[Metallic mold for casting vehicle wheel - all 4 versions »](#)**

S Nakabayashi, Y Asai, A Okumura - US Patent 5,325,907, 1994 - Google Patents

... **In mold coating** agent consisting essentially of ceramics, ... leasing or parting property ofthe molds and the **fluidity** 35 ing material ofhigh-hardness in the same ...[Cited by 2](#) - [Related Articles](#) - [Web Search](#)**[Process for resin-coating of resin moldings, resin-coating apparatus for use in the process](#)**

K Higashi, K Uesaki, M Kobayakawa, S Matsumura, H ... - US Patent 5,676,901, 1997 - Google Patents

... **in-mold coating** process, for example ... material, the material maintains the **fluidity** at its injecting 45 'A \*f \*\* \*\*tov material is performed (whzch shall step as ...[Cited by 3](#) - [Related Articles](#) - [Web Search](#)**[In-mold coating apparatus - all 3 versions »](#)**

M Oda - US Patent 4,647,274, 1987 - Google Patents

... movable an **in-mold coating** apparatus for the manufacture ofthe ... separate erally tends to exhibit a poor **fluidity** and, accordingly, ...[Web Search](#)**[Reaction injection-molded foam moldings - all 2 versions »](#)**

H Mizuno, Y Tsutsui, T Yamada - US Patent 6,455,147, 2002 - Google Patents

... (1)Askin coating film (**in-mold coating** film) 16 is ... material is injected into the mold in a state of low molecular weight having a good **fluidity**, flashes of a ...[Web Search](#)**[Powder coating composition - all 7 versions »](#)**

K Ueno, M Yokoshima, T Onizuka, K Sato, H Okumura - US Patent 4,579,925, 1986 - Google Patents

... catalyst (b), as well as a powder **in-mold coating** composition comprising ... as calcium carbonate and aluminum hydroxide, plasticizers, **fluidity** modifiers such ...[Web Search](#)**[Composite molded articles and method therefor - all 3 versions »](#)**

S Ueno, K Okumura, M Yamato - US Patent 5,098,750, 1992 - Google Patents  
... BA:>t " JL \* MtK On the other hand, the so-called **in-mold coating** 60 ... Moreover, MOLDING  
CONDITIONS **fluidity** of the starting materials inside the mold is good. ...  
[Web Search](#)

Method for decorating molding

M Masui, K Higashi - 2002 - freepatentsonline.com  
... For example, it is known an IMC (**In-Mold Coating**) molding method which is a ... 0.1  
Pa.multidot.s to 1,000 Pa.multidot.s. Accordingly, sufficient **fluidity** of the ...  
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